

PowerTeaching Math

2016-2017 STEM Scale-Up Program

Overview: Developed by Johns Hopkins Researchers, PowerTeaching Math is the leader in cooperative learning mathematics instruction helping teachers transform their classrooms environments to engage ALL students.

Grade Levels: 6-8

Program Summary

Developed by Johns Hopkins Researchers, PowerTeaching Math (PTM) is the leader in cooperative learning mathematics instruction helping teachers transform their classrooms environments to engage ALL students. PowerTeaching Math provides teachers with the tools necessary to enhance their mathematics instruction and to grow professionally. It prepares students for the rigorous demands of high school so they will continue to succeed and feel confident in their math abilities.

Program Objectives and Description

PTM uses a research-proven cooperative structure to help teachers create a learning environment in which students support each other's learning through discussion of challenges and errors, on-the-spot explanations and motivation to contribute to the success of the team. In several independent studies, students participating in the program gained a full year more than students in a randomized comparison group and had a greater liking of math and higher self-concept in math. PTM's cooperative learning structure teaches students to think critically and problem solve, communicate efficiently and collaborate effectively with their peers. Well-implemented cooperative learning environments provide teachers with the freedom to observe, interact and assess where the students are and allows them to adapt lessons and add targeted instruction as needed in real time.

Through PTM, middle school teachers will provide their students with a "toolbox" of resources they can apply to any challenge they face in high school and beyond. These skills are not only critical for success in math but for success in all STEM fields. No student gets left behind, everyone stays on task, and each student is held accountable for his or her own learning. PTM provides teachers the means to prepare tomorrow's leaders.

What does the program provide to the educator?

A set of teacher and student materials grades 6 through 8 and Algebra I (teacher materials include scope and sequence)	Online access to lessons and social networking with other Power Teacher Mathematics teachers in your building
Ongoing student assessment for each cycle	A flash drive that includes all lessons for each grade level
One registration and travel stipend for New Leaders Institute held in Baltimore, Maryland, July 18-21, 2016	Award winning media clips for concept learning

What is required by the educator in order to implement this program?

Apply for STEM Scale-Up award by March 1, 2016	On-site support visits throughout the school year* <i>*Number of days depends on number of teachers implementing the program per location</i>
Attend Regional Program Introduction prior to start of school	

Website (with link to Standards Alignment):

http://www.successforall.org/SuccessForAll/media/PDFs/PTM_lowaCCAlignment_2015_final.pdf

Program Videos: <https://www.youtube.com/watch?v=6NrmOgTAoJQ> & https://www.youtube.com/watch?v=YumRKjd4_g&feature=youtu.be

Frequently Asked Question: <http://1drv.ms/20bbd2f>